

Comparisons of Job Characteristics

Focus Occupation: Orthodontists (29-1023)

Associated Occupation: Oral and Maxillofacial Surgeons (29-1022)

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 90

Focus Occupation: Orthodontists (29-1023)

Associated Occupation: Oral and Maxillofacial Surgeons (29-1022)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Medicine and Dentistry	3.7	24.2	23.4	0 Current knowledge level may be sufficient
Customer and Personal Service	11.3	17.7	19.7	> Current knowledge level is likely sufficient
Biology	3.7	15.2	15.3	0 Current knowledge level may be sufficient
Administration and Management	8.4	14.0	17.7	>> Current knowledge level is likely more than sufficient
Therapy and Counseling	3.8	13.2	7.7	<< Extensive education and/or training may be required
Personnel and Human Resources	5.6	11.5	14.3	> Current knowledge level is likely sufficient
Sales and Marketing	5.2	10.1	14.0	>> Current knowledge level is likely more than sufficient
Chemistry	4.8	9.6	7.5	< Expanded education and/or training may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 92

Focus Occupation: Orthodontists (29-1023)

Associated Occupation: Oral and Maxillofacial Surgeons (29-1022)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Reading Comprehension	10.7	16.1	13.1	< A higher skill level may be required
Critical Thinking	10.8	14.8	13.3	< A higher skill level may be required
Complex Problem Solving	9.1	13.9	11.0	< A higher skill level may be required

Judgment and Decision Making	9.4	13.9	11.9	<	A higher skill level may be required
Science	4.5	11.6	12.5	0	Current skill level may be sufficient
Service Orientation	7.9	11.5	10.2	<	A higher skill level may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities	Similarity of Focus Occupation to Associated Occupation: 95
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Focus Occupation: Orthodontists (29-1023)
Associated Occupation: Oral and Maxillofacial Surgeons (29-1022)

Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Arm-Hand Steadiness	6.8	18.4	12.7	<<	Extensive improvement in abilities may be required
Finger Dexterity	7.6	18.2	14.2	<<	Extensive improvement in abilities may be required
Control Precision	6.6	17.8	11.5	<<	Extensive improvement in abilities may be required
Manual Dexterity	6.5	17.8	11.5	<<	Extensive improvement in abilities may be required
Problem Sensitivity	11.1	17.6	16.6	0	Current ability level may be sufficient
Inductive Reasoning	10.2	15.7	13.5	<	Some improvement in abilities may be required
Deductive Reasoning	10.6	15.1	12.8	<	Some improvement in abilities may be required
Information Ordering	9.9	13.8	11.2	<	Some improvement in abilities may be required
Selective Attention	8.7	12.6	10.2	<	Some improvement in abilities may be required
Wrist-Finger Speed	3.2	8.8	3.4	<<	Extensive improvement in abilities may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common	Similarity of Focus Occupation to Associated Occupation: 100
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Focus Occupation: Orthodontists (29-1023)
Associated Occupation: Oral and Maxillofacial Surgeons (29-1022)

Work Activities	Exclusivity of Activity
Administer anesthetics	77
Administer injections	60
Administer medications or treatments	46
Analyze dental data	89
Collect dental laboratory diagnostic data	89

Communicate technical information	4
Conduct patient assessments	69
Diagnose or treat oral diseases	95
Diagnose or treat oral injuries	85
Follow clinical radiation safety procedures	77
Follow confidentiality procedures	58
Follow infectious materials procedures	52
Follow patient care procedures	60
Identify body response variations	57
Interpret x-rays	76
Make decisions	24
Make presentations on health or medical issues	50
Monitor patient's condition	87
Obtain information from clients, customers, or patients	40
Prepare patient reports	66
Prescribe or recommend drugs, medical devices or other forms of treatment	76
Understand properties or composition of drugs	64
Understand technical operating, service or repair manuals	6
Use dental treatment procedures	87
Use interpersonal communication techniques	10
Use knowledge of dental terminology	87
Use knowledge of medical terminology	40
Use medical equipment in direct patient care	75
Use research methodology procedures in health care	63
Use sanitation practices in health care settings	48
Write technical health or medical documents	73

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus
Occupation to Associated
Occupation: 87

Focus Occupation: Orthodontists (29-1023)
Associated Occupation: Oral and Maxillofacial Surgeons (29-1022)

Tools and Technologies	Exclusivity
Autoclave and sterilizer equipment and accessories	12
Computers	1
Content authoring and editing software	1
Dental and subspecialty instruments and devices	37
Dental imaging equipment and supplies	47
Industry specific software	1
Medical computed tomography CT or CAT systems and related products	27
Medical gloves and accessories	19
Medical staff clothing and related articles	17
Presterilization cleaning equipment and solutions	24

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.